

Application No.: 10/555,074

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AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A human antibody, comprising:
human immunoglobulin VH-chain CDR1, CDR2, and CDR3 consisting of amino-acid sequences represented by SEQ ID NOS: 4, 5, and 6, respectively; and
human immunoglobulin VL-chain CDR1, CDR2, and CDR3 consisting of amino-acid sequences represented by SEQ ID NOS: 10, 11, and 12, respectively.
2. (Previously Presented) A human antibody, comprising:
a polypeptide consisting of an amino-acid sequence represented by SEQ ID NO: 3;
and
a polypeptide consisting of an amino-acid sequence represented by SEQ ID NO: 9.
3. (Previously Presented) A human antibody, comprising:
ligation of a polypeptide consisting of an amino-acid sequence represented by SEQ ID NO: 3; and
ligation of a polypeptide consisting of an amino-acid sequence represented by SEQ ID NO: 9.
4. (Currently Amended) The human antibody according to any one of Claims 1 to 3, including amino-acid sequences, represented by SEQ ID NOS: 3 to ~~[[7]]~~6 and 9 to ~~[[11]]~~12, one or more amino acids of which are substituted, deleted, inserted, and/or added, the human antibody having (1) binding activity to bind specifically to human interleukin-18 and (2) inhibitory activity for inhibiting physiological activity of human interleukin-18 and bind to human interleukin-18.
5. (Previously Presented) A human antibody, being a human anti-human interleukin-18 antibody against human interleukin-18, the human antibody having (1) binding activity to human interleukin-18 and (2) inhibitory activity for inhibiting physiological activity of human interleukin-18.

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6. (Previously Presented) A modified antibody, comprising the human antibody according to any one of Claims 1-3 and 5 and a modification agent binding thereto.

7. (Previously Presented) A gene coding the human antibody according to any one of Claims 1-3 and 5.

8. (Previously Presented) The gene according to Claim 7, including as an open reading frame a base sequence represented by SEQ ID NO: 1 or 7.

9. (Previously Presented) A recombinant expression vector, comprising the gene according to Claim 7.

10. (Previously Presented) A transformant, comprising the gene according to Claim 7 introduced therein.

11. (Previously Presented) A method for producing a human antibody against human interleukin-18 by causing a host to express the gene according to Claim 7.

12. (Previously Presented) A detector for human interleukin-18, the detector using either (1) the antibody according to any one of Claims 1-3 and 5, or (2) a modified antibody comprising the human antibody according to any one of Claims 1 to 5 and a modification agent binding thereto.

13. (Previously Presented) An immunological disease diagnostic kit for measuring an amount of human interleukin-18 contained in a test sample, by using either (1) the antibody according to any one of Claims 1-3 and 5, or (2) a human interleukin-18 detecting reagent including a modified antibody comprising the human antibody according to any one of Claims 1-3 and 5 and a modification agent binding thereto.

14. (Previously Presented) A method for diagnosing immunological disease in accordance with an amount of human interleukin-18 contained in a test sample and measured by using the detecting reagent according to Claim 13.

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15. (Previously Presented) A human interleukin-18 activity inhibitor, comprising a human interleukin-18 antagonist as an active ingredient.

16. (Previously Presented) The human interleukin-18 activity inhibitor according to Claim 15, wherein the human interleukin-18 antagonist is any one of following substances selected from:

- (i) the human antibody according to any one of Claims 1-3 and 5;
- (ii) a modified antibody comprising the human antibody according to any one of Claims 1-3 and 5 and a modification agent binding thereto; and
- (iii) a low-molecular compound obtained through molecular designing in accordance with an antigen determining region on human interleukin-18, the antigen determining region being recognized by either (1) the antibody according to (i), or (2) the modified antibody according to (ii).

17. (Cancelled)

18. (Previously Presented) A immunological disease treatment agent, comprising the human interleukin-18 activity inhibitor according to Claim 15.

19. (Cancelled)

20. (Previously Presented) The immunological disease treatment agent according to Claim 18, which inhibits cytokines produced from helper T1 cells stimulated with an antigen and human interleukin-18.

21. (Previously Presented) The immunological disease treatment agent according to Claim 18 or 20, which is applied to human interleukin-18-related allergy, inflammation, and chronic immune abnormality disease.

22. (Cancelled)

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23. (Cancelled)

24. (Cancelled)

25. (Previously Presented) A recombinant expression vector, comprising the gene according to Claim 8.

26. (Previously Presented) A transformant, comprising the gene according to Claim 8 introduced therein.

27. (Previously Presented) A method for producing a human antibody against human interleukin-18 by causing a host to express the gene according to Claim 8.

28. (Cancelled)

29. (Previously Presented) A immunological disease treatment agent, comprising the human interleukin-18 activity inhibitor according to Claim 16.

30. (Previously Presented) A immunological disease treatment agent, comprising the gene therapy agent according to Claim 17.